

**M12 male 0° / M12 female 0° A-cod. F&B Pro**

TPE-S 0.5+0.25 shielded bu UL robot+drag ch. 5m

Art.No.: 7024-46041-5230500

Weight: 0.434

Country of origin: DE

Model designation: MSBL0-A-6p2\_523\_5.0-ZE-S24

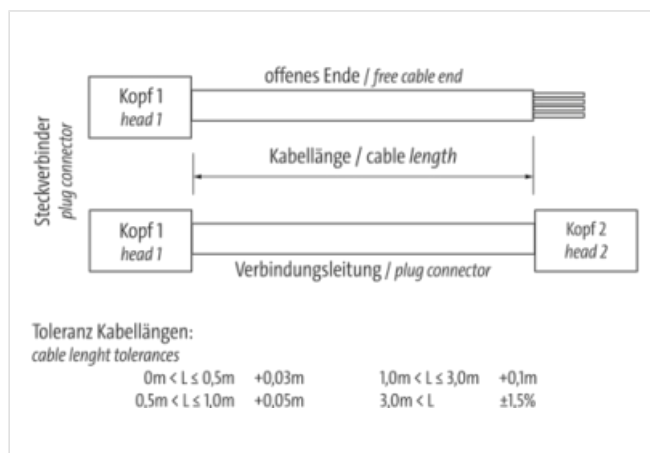
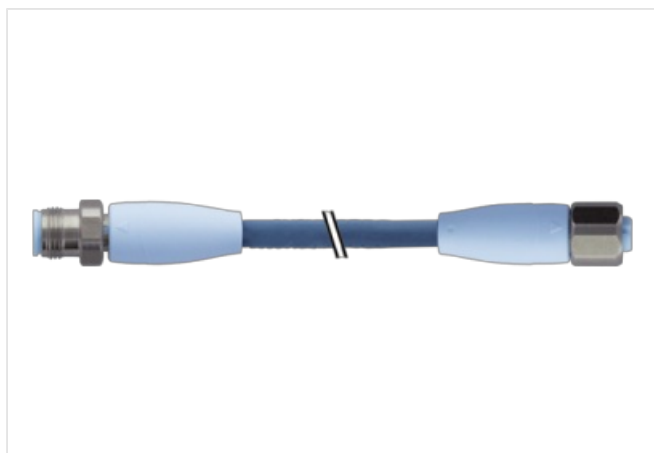
**Advantages of our connectors:**

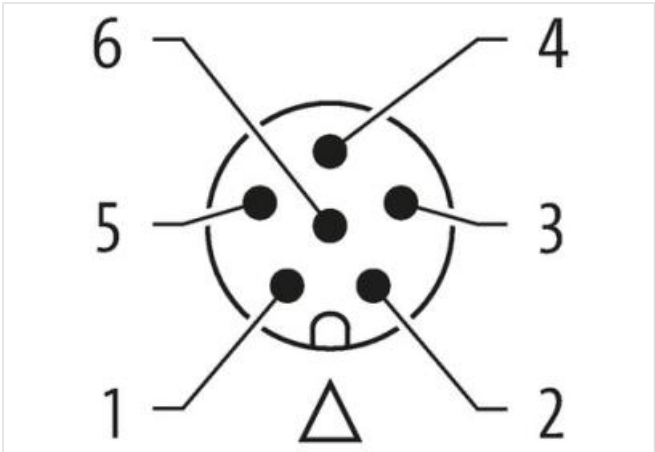
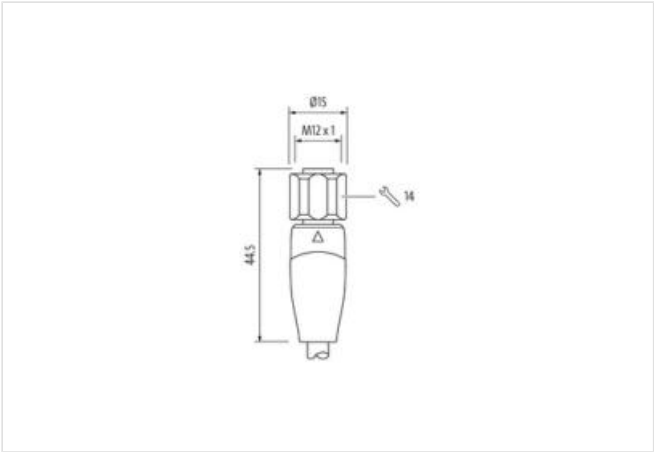
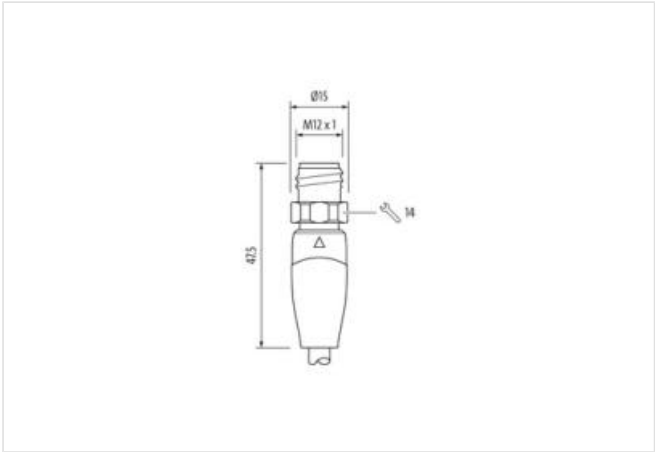
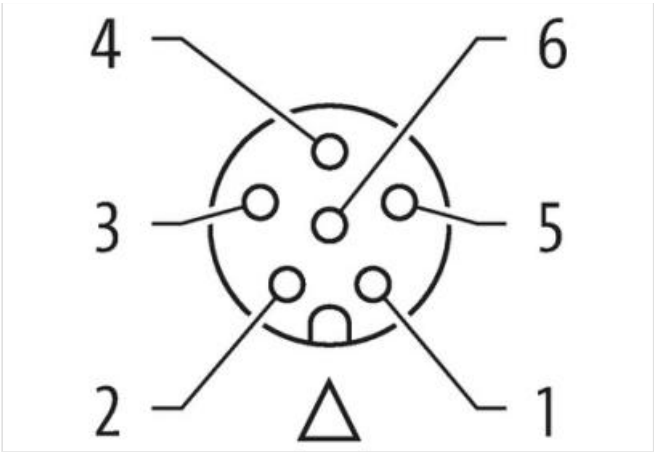
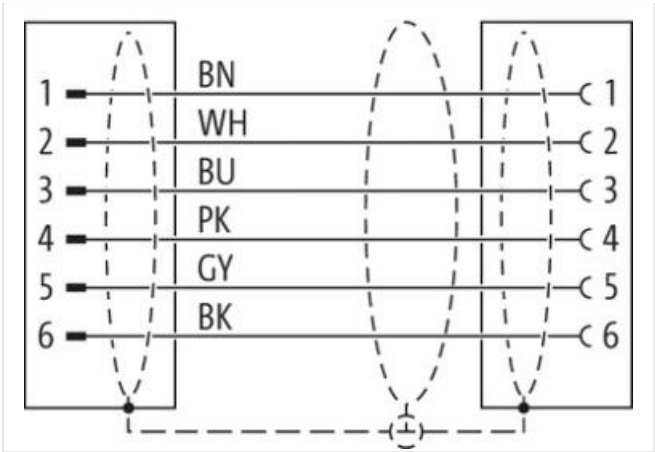
Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

**Product details:****Plastic housings with good resistance against chemicals and oils.****The resistance to aggressive media should be individually tested for your application. Further details on request.****Further cable lengths on request.****Plug Connectors for Food & Beverage****Male straight – female straight****M12 F&B Pro****6-pole****Stainless steel 1.4404 (V4A)****without cable sleeves****IP69K****Cube67**[Link to Product](#)**Illustration**



Product may differ from Image

Cable length	5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A

Material contact	Copper alloy
No. of poles	6
Degree of protection (EN IEC 60529)	IP65, IP68, IP69K
<b>Side 2</b>	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	6
Width across flats	SW14
Degree of protection (EN IEC 60529)	IP65, IP68, IP69K
<b>Commercial data</b>	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879791854
EAN	4048879791854
Packaging unit	1
Packaging unit	1
<b>Electrical data   Supply</b>	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
<b>Diagnostics</b>	
Status indication LED	no
<b>Device protection   Electrical</b>	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
<b>Mechanical data</b>	
Contour for corrugated hose	without
<b>Mechanical data   Material data</b>	
Material housing	PP
Color contact carrier	ice blue
Material gasket	EPDM
Material contact carrier	PP
Locking material	Stainless steel 1.4404 (V4A)
<b>Mechanical data   Mounting data</b>	
Mounting method	inserted, screwed, Shaking protection

Environmental characteristics   Climatic	
Operating temperature min.	-40 °C
Operating temperature max.	105 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12), FDA conform
Installation   Cable	
wire arrangement	gray, pink, (blue, white, brown, black)
Cable identification	523
Function cable	Hybrid, Signal, Data
Jacket Color	blue
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Stranding (type 2)	4 wires with Stranding combination with 3 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
wire arrangement	gray, pink, (blue, white, brown, black)
Cable weight	82,5 g/m
Material jacket	TPE-S
Shore hardness jacket	47 ± 5 Shore D
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	7,9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1,5 mm
Outer diameter tolerance core insulation	± 5 %
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	28
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,5 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Data)	PP
Outer diameter wire insulation (Data)	1,35 mm
Tolerance outer diameter wire insulation (data)	± 5 %
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	32
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	0,25 mm <sup>2</sup>
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4

Current load capacity min. wire	7,2 A
Current load capacity min. Wire (Data)	4,5 A
Characteristic impedance	102 $\Omega$ @ 1 MHz
Electrical resistance line constant wire	39 $\Omega$ /km @ 20 °C
Electrical resistance coating wire (Data)	78 $\Omega$ /km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Electric inductivity line constant	0,58 mH/km
Electrical capacity line constant (wire - wire)	55 pF/km
Electrical capacity line constant (wire - shield)	105 pF/km
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
AC withstand voltage (wire - shield)	3 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	105 °C
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	105 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	4 Mio. @ 20 °C
Traversing distance (C-track)	10 m @ 20 °C
Travel speed (C-track)	3 m/s @ 20 °C
No. of torsion cycles	2 Mio.
Torsion stress	$\pm 180$ °/m